

#3 02-14-01

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/768,020DATE: 02/05/2001
TIME: 13:32:53Input Set : A:\Ni4577.txt
Output Set: N:\CRF3\02052001\I768020.raw

4 <110> APPLICANT: Greenspan, Ralph J.
5 Edelman, Gerald M.
7 <120> TITLE OF INVENTION: Method For Functional Mapping of An
8 Alzheimer's Disease Gene Network and For Identifying
9 Therapeutic Agents for the Treatment of Alzheimer's Disease
12 <130> FILE REFERENCE: P-NI 4577
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/768,020
C--> 14 <141> CURRENT FILING DATE: 2001-01-23
14 <150> PRIOR APPLICATION NUMBER: US 09/490,243
15 <151> PRIOR FILING DATE: 2000-01-24
17 <160> NUMBER OF SEQ ID NOS: 80
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 509
23 <212> TYPE: DNA
24 <213> ORGANISM: Drosophila melanogaster
26 <400> SEQUENCE: 1
27 gatagattcg tggccatctg taaccatttg ttatactcag ttgctatgtc ccagaggctc 60
28 tgcateccagc tagtggtggg tccctatgtc attggactca tgaataccat gactcacaca 120
29 acaaatgcat ttgtctccc ttttgtggc cctaattgtca tcaatccttt cttctgtgat 180
30 atgtccccc tcttttccc tgtatgtgct gataccaggc tcaataagtt ggcagttttc 240
31 atcgtggctg gagctgtggg agtcttcagt ggcccgacta tectgatttc ctacatttac 300
32 atcctcatgy ccactctgag gatgtccgct gatgggaggt gcagaacctt ttctacttgc 360
33 tcttctcacc cgacagctgc ttctatctcg tatggtaacc tcttctttat ttatgtacat 420
34 cccagtgcac cttctccctt ggaatcctca aaagtagtgt ctgtgtttta cacagcagtg 480
35 attcccatgc tcaacccctt catctgcag 509
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 264
39 <212> TYPE: DNA
40 <213> ORGANISM: Drosophila melanogaster
42 <400> SEQUENCE: 2
43 gcaataaata cagacaatta tatatatatt tctataattt gtttcatatt atcattttat 60
44 tgattgtgaa cgaataaagg aaaaaataaa cttagaaaaa gataacaaat aaattgctaa 120
45 atttaagcgc aaaaagttcaa ttaataaaaa ttagaatttt aatactaaca taatttggac 180
46 tatttatata tacatacgca tatatataca actctatata tgaataatta gtaacaaatc 240
47 aaatcaattt ccataacaac cgct 264
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 367
51 <212> TYPE: DNA
52 <213> ORGANISM: Drosophila melanogaster
54 <400> SEQUENCE: 3
55 tcttttttga attttattca attttaaagt acaattgcac gagtgatttt lgttgacctc 60
56 gtcactaaga atatatatat atttttttgt ttttttttct ggcggttgtt atggaaattg 120
57 atttgatttg ttactaatta ttcatatata gagttgtata tatatgcgta tgtatatata 180
58 aatagtccaa attatgttaa laltaaaaat ctaattttta ttaattgaac ttttgcgctt 240
59 aaatttagca atttatttgt tatctttttc taagttttat tttttccttt ttcggttcaca 300
60 atcaataaaa tgataaaatg aaacaaatta tagaaaaata tatataattg tctgtattta 360

ENTERED
see page 5

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Input Set : A:\Ni4577.txt
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61 ttgcgga
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64 <211> LENGTH: 483
65 <212> TYPE: DNA
66 <213> ORGANISM: Drosophila melanogaster
68 <220> FEATURE:
69 <221> NAME/KEY: misc_feature
70 <222> LOCATION: (1)...(483)
71 <223> OTHER INFORMATION: n = A,T,C or G
73 <400> SEQUENCE: 4
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W--> 75 ttgtcataac ntcacagtag tatactcgnt cnttttggta ataatccga aaaaactgna 120
W--> 76 cgaatccag naanatatcc ccgtcaanaa aaaaaacata taaaatatga aatggtacat 180
W--> 77 aanaaatatg tccantccaa ccaaccaacc aaacaaccaa ccaacaaaca acaannacca 240
78 accaacccaa aatccccaaat aaccgccaaac aatccaaaat gglaactaaa accattgggtg 300
79 aaacacaggat acaagccact tatcctaaca aacgccaggc tacactgaga aaataagcat 360
W--> 80 cgnaggttgg tatggatagc agaaattacc catattcgtg gactaaaggt ggtgtactga 420
81 ttgactgatt gattgacgtg ttgggtgggtg aatacatata ttctgactgc atgccaaagg 480
82 ata
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 395
86 <212> TYPE: DNA
87 <213> ORGANISM: Drosophila melanogaster
89 <400> SEQUENCE: 5
90 tgtttgtatg tctactccaa aaacaaaaaata ataatttata ctgtctgttg ttgtcataac 60
91 tcacatatat actcgtcttct tgtatatccg aaaaactgac cgtatccaaa atatcccgcc 120
92 aaaaaaaaac atataaaata tgaatgtaca taaaatatg tccatccaac caaccaacca 180
93 aacaaccaac caacaacaaa caaaaccaac caaccacaaa tcccaaaaac cgcacaacat 240
94 ccaaaatgta actaaaacca ttgtgaaaac agatacaagc cacttatcct aacaaacgcc 300
95 aggcctacact gagaaaataa gcacggagt tggatatgat agcagaaatt acccatatc 360
96 gtggactaaa ggtgggtgtac tgattgactg attga
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 188
100 <212> TYPE: DNA
101 <213> ORGANISM: Drosophila melanogaster
103 <400> SEQUENCE: 6
104 agtatattct ttagtttctt tgagggtgtg tagcacactc attgttgctt tagcctagcg 60
105 ctggtttatt aaatgttagc taagtttaaa ttatgtattt acagatgctg tgtgctagct 120
106 cgaagtgat aatttsgtgt tattttttgt gtatgggatt ttgataaatg cttatgagt 180
107 ttagaacg
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 186
111 <212> TYPE: DNA
112 <213> ORGANISM: Drosophila melanogaster
114 <400> SEQUENCE: 7
115 agtatattct ttagtttctt tgagggtgtg tagcacactc attgttgctt tagcctagcg 60
116 ctggtttatt aaatgttagc taagtttaaa ttatgtattt acagatgctg tgtgctagct 120
117 cgaagtgat aatttsgtgt atttttttgt tatgggattt tgataaatgc cttatgagt 180
118 tagaac

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120 <210> SEQ ID NO: 8
121 <211> LENGTH: 297
122 <212> TYPE: DNA
123 <213> ORGANISM: Drosophila melanogaster
125 <400> SEQUENCE: 8
126 acatttccat gggtttattt aatgtgaagt taaactgcaa atttctagtc taagcgtagt 60
127 agttaagatt agccttcttc ttgcctgca cttccatgat ggcgtccatg aagtcctcgt 120
128 gtgtaaccga gttggcggag cgcgcgagt ccatcatacc agcttccaca cagacggcct 180
129 tgcactgggc gccgttgaa gcatccgtgg atcgggacaa ttcttcgaaa ttacatcat 240
130 tgcataacgtt cattttacgc gagtgaatct gcataatcag ggcacgggct tctcgt 297
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 710
134 <212> TYPE: DNA
135 <213> ORGANISM: Drosophila melanogaster
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (1)...(710)
140 <223> OTHER INFORMATION: n = A,T,C or G
142 <400> SEQUENCE: 9
143 gatatatat tttgtttatt ttaaaaagggt tgggtattga tttcagtaac tctccattc 60
W--> 144 tagtaaatgg ttacttttaa nagccgttcc gatgttattt tataggcgat cttcnttgtg 120
145 caactcagat cgaaactgaa aatttttaca ttccatgggt ttatttlaat gtgaagttaa 180
146 actgcaaat tctagtctaa gcgtagtagt taagatttag cttcttcttc gctgcactt 240
W--> 147 ccatgatggc gtccatgaat ctctgtcgta accgaattgg cgganccagc cagtgcgatc 300
148 ataccacttc cacacaaacg gtttgcactg ggcgcgcttg aatcatccgt ggatcgggac 360
149 atctctgaaa tcacatcatg ctaactttca tttaacgaat gaattgcata atacggccgg 420
W--> 150 cttcccttgg ggatttgaaa ncattctaat ccnangacca accccccaac cgateccaaan 480
W--> 151 tccccaatgg tcccaatcca agnaattcn aattcccnct gnggccccact gcntaaggcc 540
W--> 152 atccccattn atcttaatcc ggcgcntnnn ctctnaggaa ccgnttccat atctgnenn 600
W--> 153 cctccttggg tacaaagccc antcccatn ccnaaggaa gaccttcgct accgggtggt 660
W--> 154 cctactntc nccacnttc ttctctnctt cgtccacang gctnggcagt 710
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 479
158 <212> TYPE: DNA
159 <213> ORGANISM: Drosophila melanogaster
161 <400> SEQUENCE: 10
162 gatatatat tttgtttatt ttaaaaagggt tgggtattga tttcagtaac tctccattc 60
163 agtaaatggg tacttttaag agccgttccg atgttatttt aaaggcgatc ttcaaggctc 120
164 aactcagatc gaaactgaaa aattttacat ttccatgggt tattttaatg tgaagttaaa 180
165 ctgcaaat ttagtctaa gctagtagtt aagattagcc ttcttcttcg cctgcacttc 240
166 catgatggcg tccatgaagt ctctgtcgtt aaccgaattg gcggagcgac gcagtgcgat 300
167 cataccagct tccacacaga cggccttgca ctgggcgcgg ttgaagtcac ccgtggatcg 360
168 ggacaattcc tcgaaattca catcattgct aacgttcatt ttacgcgagt gaactctgat 420
169 aatacgggca cgggcttctt cgttgggatg tgggaactcg atcttacgat ccagacgac 479
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 355
173 <212> TYPE: DNA
174 <213> ORGANISM: Drosophila melanogaster
176 <400> SEQUENCE: 11

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177 tggccccagg acgagcggttg cctcgcccga ggacgatata ccctgcccca taataatcct 60
178 aaaccatac cgaccggcag gtggtcttcc agaggagacg ataacgacgt agcgtgttcg 120
179 aaaaggacag tggagtcagt ggtcggcaaa ggtggtccca ggacgagcgt ttgcctcgcc 180
180 cgaggacgat acaccctaac ccataacatc ataateccag ccgggcccgc tcgtcgtccg 240
181 tgtcaaggag caagcaggac caccggagca aggcgttgca ggagaaatgc cgcaggagca 300
182 ccgagattgc cgaagaagtt atccataagg ctgtagaata aaatactata ataag 355
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185 <211> LENGTH: 171
186 <212> TYPE: DNA
187 <213> ORGANISM: Drosophila melanogaster
189 <400> SEQUENCE: 12
190 gtatgttaac aaaaattact aacctataa acattaacgt ccatcgggac taataaaagc 60
191 aatgttaaca cgtctagaca ttgacataat ccctgttcaa tatcacgcaa ttttaaacca 120
192 tccaacggca gcataaattt cttctccttc tcatcctcgt cttacacac a 171
194 <210> SEQ ID NO: 13
195 <211> LENGTH: 170
196 <212> TYPE: DNA
197 <213> ORGANISM: Drosophila melanogaster
199 <400> SEQUENCE: 13
200 tatgttaaca aaaaattact accctataaa cattaacgtc catcgggact aaataaaagc 60
201 aatgttaacac gtctagacat tgacataatc cctgttcaa tatcacgcaa ttttaaacca 120
202 ccaacggcag cataaatttc ttctccttct catcctcgtc cttacacaca 170
204 <210> SEQ ID NO: 14
205 <211> LENGTH: 162
206 <212> TYPE: DNA
207 <213> ORGANISM: Drosophila melanogaster
209 <400> SEQUENCE: 14
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211 aatgttaacac gtctagacat tgacataaat ccctgttcaa tatcacgcaa ttttaaacca 120
212 tccaacggca gcataaattt cttctccttc tcatcctcgt cc 162
214 <210> SEQ ID NO: 15
215 <211> LENGTH: 249
216 <212> TYPE: DNA
217 <213> ORGANISM: Drosophila melanogaster
219 <400> SEQUENCE: 15
220 ddtcaatagg wraaaatata gaataataa gatatgaaty aaagattggg taagagagata 60
221 ggataaamat agtaaaaggaa gaaagtgtgc atggaattag aaattaggaa ttagggtttt 120
222 ttdtttttca gataaaaggaa maaagaaggaa aaaatttaaa gaaaggatat ggaaaaatga 180
223 gagaagaaat tatagagaaa ataatgcattg attgagaatg aaytaagaat tgagaggaaat 240
224 waaatlaag 249
226 <210> SEQ ID NO: 16
227 <211> LENGTH: 709
228 <212> TYPE: DNA
229 <213> ORGANISM: Drosophila melanogaster
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (1)...(709)
234 <223> OTHER INFORMATION: n = A,T,C or G
236 <400> SEQUENCE: 16

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W--> 237 canataatgt ctctatcgct gtaataatc cancgtaaca cgaaggcaat gtgatcagta 60
W--> 238 natgagaaat tttatccatc tcttctatct ttgcaccagc tgccaacaat tctttttttt 120
W--> 239 tttcgtctaa aatangaanaa tggcttaata gtgacatctc acttgatagc ttcagagaaa 180
      240 gcaaacgttt tgcacagcgc agttgcgacg ccaaaccttt tgcgttcataa acggcgctcc 240
      241 aattctcaag aactgacgcg ccgtaatgtc cttgttgcga aattaaaaac aatccttagg 300
W--> 242 tacaantcnc gaagggaatc tctgcanata tccatcacac tggcggcgct cgaacatgca 360
W--> 243 ctananggcc aattccccta tagtgatcta ttacaatcct ggcgtcttta cactctgann 420
W--> 244 ggaaacggcg ntaccaatta tcnctgacca tcccttcnca cngnttnaac aaagccenga 480
W--> 245 cccccanttg ccccgaaagg aggacctgt acgcctacc gnggtgngtn cccntactac 540
W--> 246 tcnccnancn tctttctttt ctnttccctc cggtcgtaaa ccatgggcct tgcataatct 600
W--> 247 cngccancna ntatnggagc cttggcccca aagntcccaa tgatctcnaa ngactcnga 660
W--> 248 ncccccgccc ntaataggat cangtgnna nacataatcn catcacngg 709

250 <210> SEQ ID NO: 17
251 <211> LENGTH: 468
252 <212> TYPE: DNA
253 <213> ORGANISM: Drosophila melanogaster
255 <400> SEQUENCE: 17
256 cagataatgt ctctatcgct gtaataatc catcgtaaca cgaaggcaat gtgatcagta 60
257 gatgagaaat tttatccatc tcttctatct ttgcaccagc tgccaacaat tctttttttt 120
258 agttcgtcaa aatatgaaa atggcttaat agtgacatct cactcgatag cttcagagaa 180
259 agcaaacggt ttcgacgcgc cagtgtgcac gccaaacttt tgcgttcataa acggcgctcc 240
260 aaattctcaa gaattcgacg cgcgctaatt tgcgttgttg cgaattttaa aaacgagtcg 300
261 cttaggtacg aattcacgaa ggcggaatc tgcagatata catcacactg gcggcgctcc 360
262 gagcatgcac ctgaggggcc caattcgccc tatagtgaat cgtattacaa ttcactggcc 420
263 gtcgttttac aacgtcgtag ctgggaaaaa cctggcggtta ccaactt 468

265 <210> SEQ ID NO: 18
266 <211> LENGTH: 416
267 <212> TYPE: DNA
268 <213> ORGANISM: Drosophila melanogaster
270 <400> SEQUENCE: 18
271 cattgacttg gcaaaatgaa acaaaacaaa ttgaaatcta ttgttaattt acatttaagc 60
272 ctaaaaacat atgattatat caaacactta gttttagtcg ataattgttt ataatttttc 120
273 agacacacac acgcaacaca cacagacaca tccaacttaa agtgcgtaac ataaagttaa 180
274 ataaataaat gaaacacatc taacacgaac aaaacaataa tcaaggaactg gagcggtttg 240
275 ggttttcgtt tccagcgatt acctggagat caccatggca accagtcaca ctcatllaca 300
276 cttgggaatg atgggagttc ttctatcaac taacaaatcc tatttcatat acaacacggt 360
277 aactatggtt gcttgggttag ttcgctttcc tgcgcttctg tataagtaca caatat 416

279 <210> SEQ ID NO: 19
280 <211> LENGTH: 286
281 <212> TYPE: DNA
282 <213> ORGANISM: Drosophila melanogaster
284 <400> SEQUENCE: 19
285 tcaaaagcag tgcaacgctg tacatacata tatagaaaga acaaaatgag agagatcaat 60
286 ctgtaacttg aatggtggtta agtaagaggg tgcatacata tttttttaca cgcgtatata 120
287 gtttgcgttt ttcgctttcc acacaagata cgtacttcgt agccccctt cccctttcca 180
288 aatactgtat cacaagatc ataactcaaa atgctattgc tttgaattac atcttatttc 240
289 ggtggtgtca actgcgccac catacgaana tacataaatt atagcg 286

291 <210> SEQ ID NO: 20
292 <211> LENGTH: 706

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 02/05/2001

PATENT APPLICATION: US/09/768,020

TIME: 13:32:54

Input Set : A:\Ni4577.txt

Output Set: N:\CRF3\02052001\I768020.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
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L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
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L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

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Input Set : A:\Ni4577.txt
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L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29